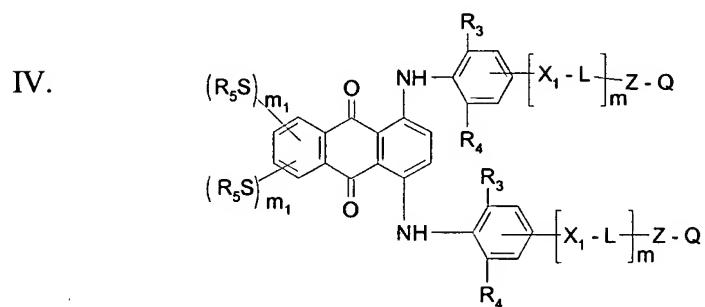
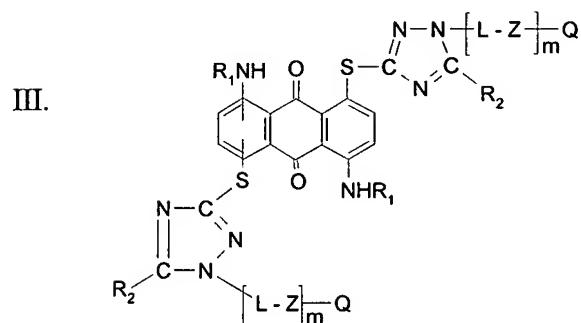
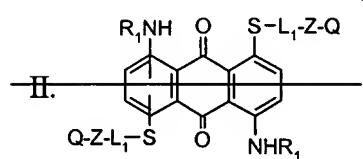
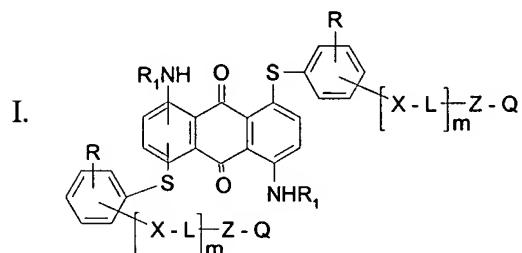
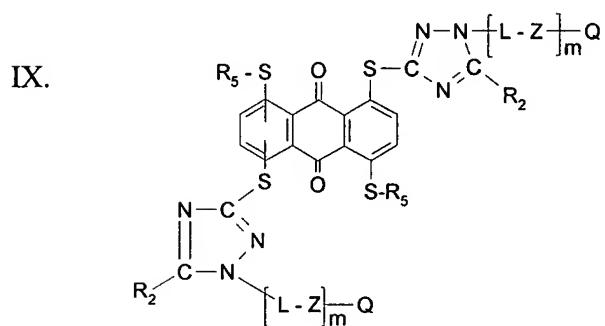
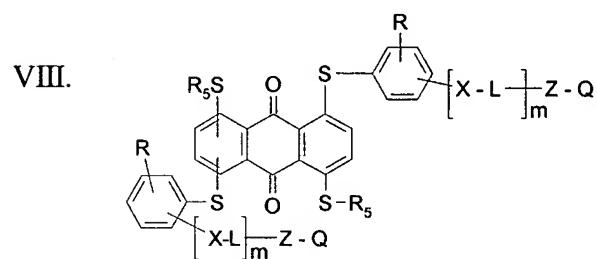
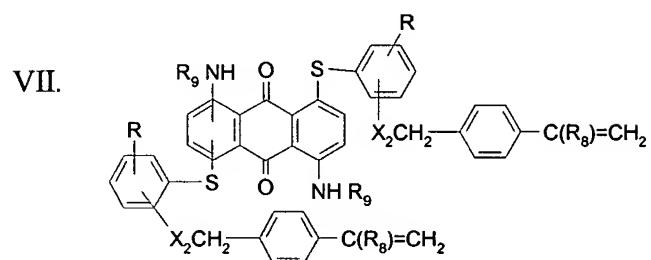
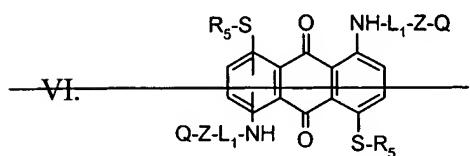
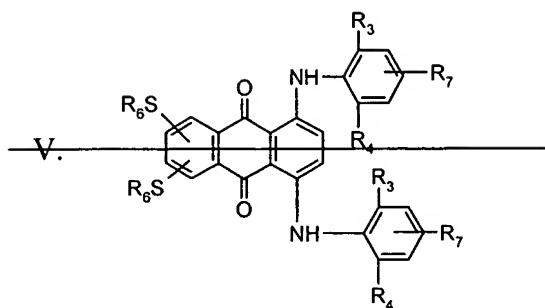
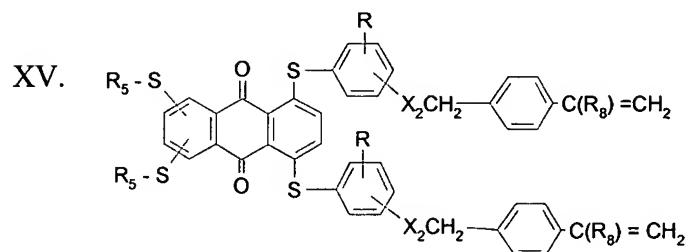
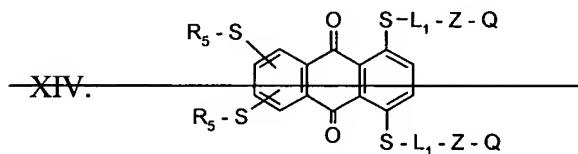
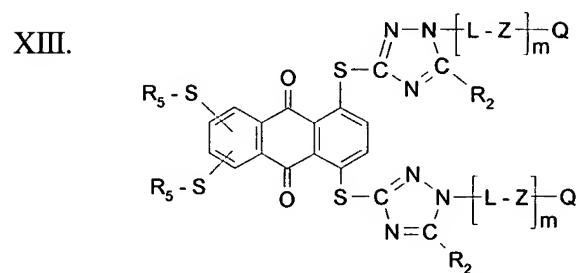
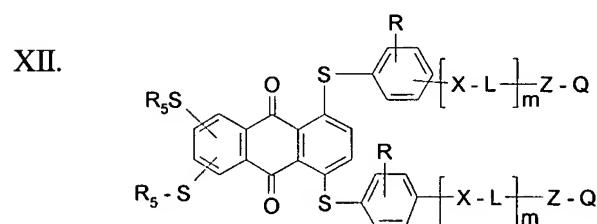
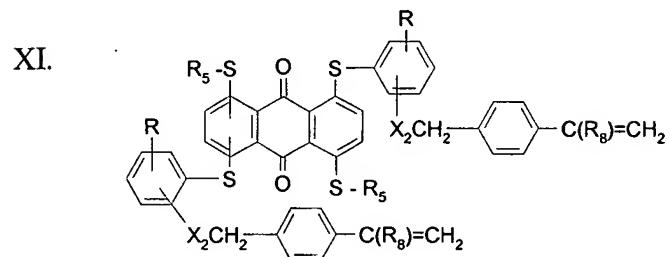
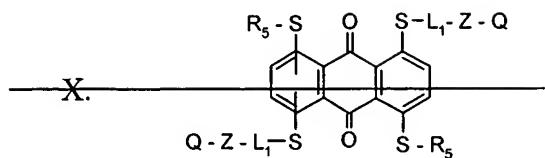


AMENDMENT

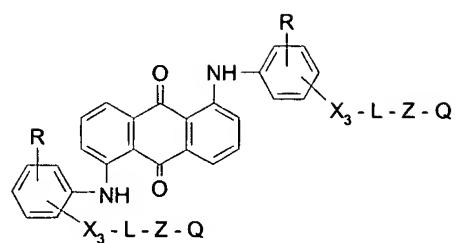
1. (Currently Amended) Anthraquinone dye compounds having the formulae:



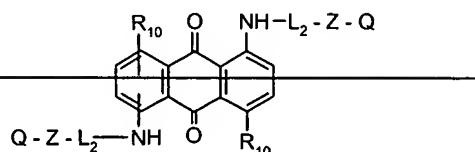




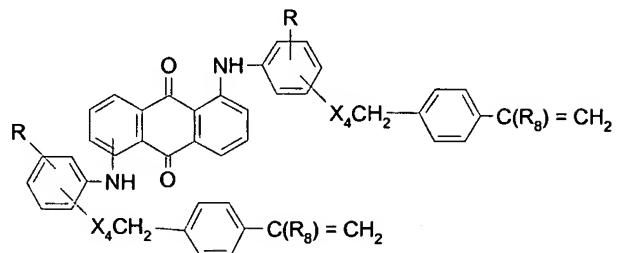
XVI.



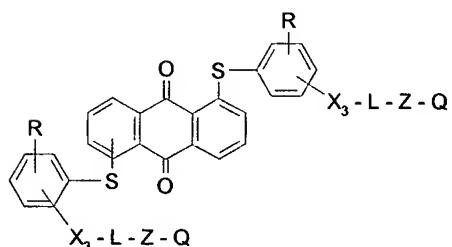
-XVII.



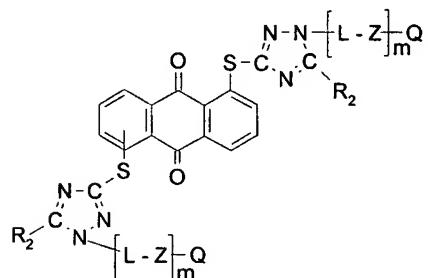
XVIII.



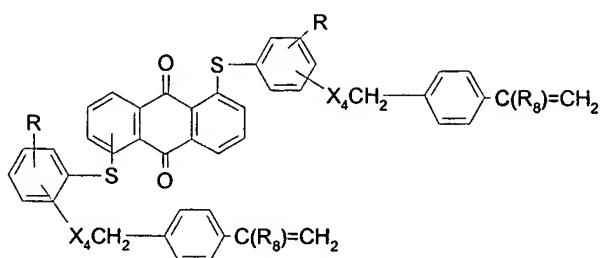
XIX.



XX.

or

XXI.



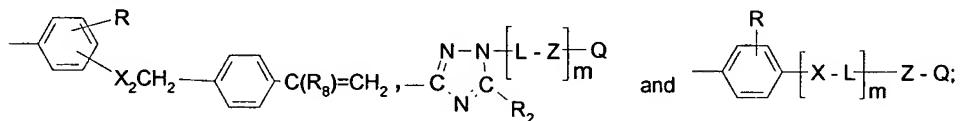
wherein:

R is selected from hydrogen or 1-3 groups selected from C<sub>1</sub> - C<sub>6</sub>-alkyl, C<sub>1</sub> - C<sub>6</sub>-alkoxy and halogen;

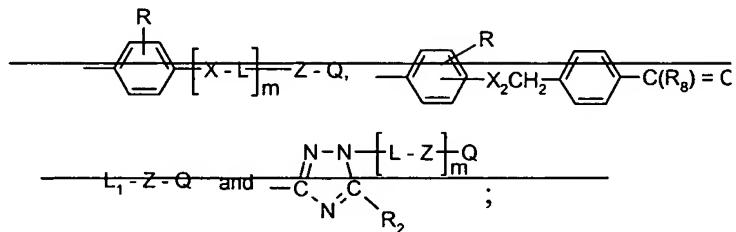
R<sub>1</sub> is selected from C<sub>1</sub> - C<sub>6</sub>-alkyl, substituted C<sub>1</sub> - C<sub>6</sub>-alkyl, C<sub>3</sub> - C<sub>8</sub>-alkenyl, C<sub>3</sub> - C<sub>8</sub>-cycloalkyl, aryl and -L<sub>1</sub>-Z-Q; R<sub>2</sub> = selected from hydrogen, C<sub>1</sub> - C<sub>6</sub>-alkyl, substituted C<sub>1</sub> - C<sub>6</sub>-alkyl, C<sub>3</sub> - C<sub>8</sub>-cycloalkyl and aryl;

R<sub>3</sub> and R<sub>4</sub> are independently selected from C<sub>1</sub> - C<sub>6</sub>-alkyl and bromine;

R<sub>5</sub> is selected from C<sub>1</sub> - C<sub>6</sub>-alkyl, substituted C<sub>1</sub> - C<sub>6</sub> alkyl, C<sub>3</sub> - C<sub>8</sub>-cycloalkyl, aryl, heteroaryl, -L<sub>1</sub>-Z-Q,



R<sub>6</sub> is selected from



R<sub>7</sub> is selected from hydrogen, substituted or unsubstituted C<sub>4</sub>-C<sub>6</sub>-alkyl, C<sub>4</sub>-C<sub>6</sub>-alkoxy, halogen, hydroxy, substituted or unsubstituted C<sub>4</sub>-C<sub>6</sub>-alkylthio, sulfamoyl and substituted sulfamoyl;

R<sub>8</sub> is selected from hydrogen and C<sub>1</sub> - C<sub>6</sub>-alkyl;

R<sub>9</sub> is selected from the groups represented by R<sub>1</sub> and -L - Z - Q;

R<sub>10</sub> is selected from hydrogen and halogen;

X is a covalent bond or a divalent linking group selected from -O-, -S-, -SO<sub>2</sub>-, -CO<sub>2</sub>-, -CON(Y)- and -SO<sub>2</sub>N(Y)-, wherein Y is selected from hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>3</sub>-C<sub>8</sub>-cycloalkyl, C<sub>3</sub>-C<sub>8</sub>-alkenyl, aryl and -L-Z- Q;

X<sub>1</sub> is selected from -O-, -S-, -SO<sub>2</sub>- and -SO<sub>2</sub>N(Y)-;

X<sub>2</sub> is selected from -CO<sub>2</sub>- and -SO<sub>2</sub>N(Y<sub>1</sub>), wherein Y<sub>1</sub> is a group selected from hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>3</sub>-C<sub>8</sub>-alkenyl, C<sub>3</sub>-C<sub>8</sub>-cycloalkyl, aryl, heteroaryl and -CH<sub>2</sub>-p-C<sub>6</sub>H<sub>4</sub>-C(R<sub>8</sub>)=CH<sub>2</sub>;

X<sub>3</sub> is selected from -CO<sub>2</sub>-, -SO<sub>2</sub>N(Y)-;

X<sub>4</sub> is selected from -CO<sub>2</sub>-, -O- and -SO<sub>2</sub>N(Y<sub>1</sub>)-;

L is a divalent linking group selected from C<sub>1</sub>-C<sub>8</sub>-alkylene, C<sub>1</sub>-C<sub>6</sub>-alkylene-arylene, arylene, C<sub>1</sub>-C<sub>6</sub>-alkylene-arylene -C<sub>1</sub>-C<sub>6</sub>-alkylene, C<sub>3</sub>-C<sub>8</sub>-cycloalkylene, C<sub>1</sub>-C<sub>6</sub>-alkylene -C<sub>3</sub>-C<sub>8</sub>-cycloalkylene -C<sub>1</sub>-C<sub>6</sub>-alkylene, C<sub>1</sub>-C<sub>6</sub>-alkylene - Z<sub>1</sub>-arylene -Z<sub>1</sub>-C<sub>1</sub>-C<sub>6</sub>-alkylene and C<sub>2</sub>-C<sub>6</sub>-alkylene-[Z<sub>1</sub>-C<sub>2</sub>-C<sub>6</sub>-alkylene-]<sub>n</sub>- wherein Z<sub>1</sub> is selected from -O-, -S- and -SO<sub>2</sub>- and n is 1-3;

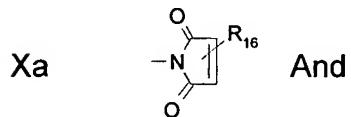
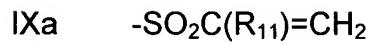
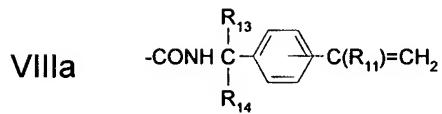
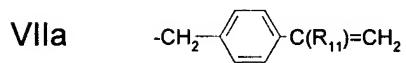
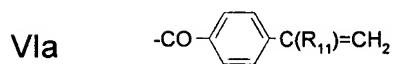
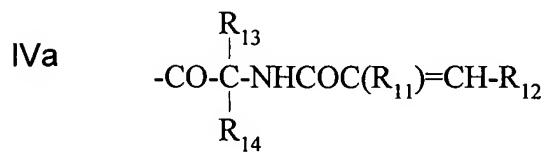
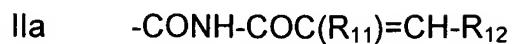
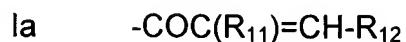
L<sub>1</sub> is a divalent linking group selected from C<sub>2</sub> - C<sub>6</sub>-alkylene, C<sub>1</sub>-C<sub>6</sub>-alkylene-C<sub>3</sub>-C<sub>8</sub>-cycloalkylene-C<sub>1</sub>-C<sub>6</sub>-alkylene, C<sub>1</sub>-C<sub>6</sub>-alkylene-arylene, C<sub>3</sub>-C<sub>8</sub>-cycloalkylene, and C<sub>2</sub>-C<sub>6</sub>-alkylene-[Z<sub>1</sub>-C<sub>2</sub>-C<sub>6</sub>-alkylene-]<sub>n</sub>-;

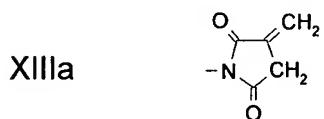
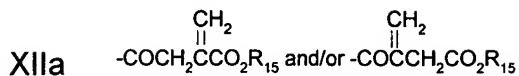
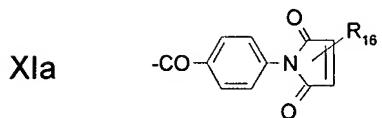
L<sub>2</sub> is selected from C<sub>2</sub>-C<sub>6</sub>-alkylene, C<sub>4</sub>-C<sub>6</sub>-alkylene-arylene-C<sub>4</sub>-C<sub>6</sub>-alkylene and C<sub>4</sub>-C<sub>6</sub>-alkylene-C<sub>3</sub>-C<sub>8</sub>-cycloalkylene-C<sub>4</sub>-C<sub>6</sub>-alkylene;

Z is a divalent group selected from -O-, -S-, -NH-, -N(C<sub>1</sub>-C<sub>6</sub>-alkyl)-, -N(C<sub>3</sub>-C<sub>8</sub> alkenyl)-, -N(C<sub>3</sub>-C<sub>8</sub> cycloalkyl)-, -N(aryl)-, -N(SO<sub>2</sub>C<sub>1</sub>-C<sub>6</sub>-alkyl) and -N(SO<sub>2</sub> aryl)-, provided that when Q is a photopolymerizable optionally substituted maleimide radical, Z represents a covalent bond; Q is an ethylenically-unsaturated, photosensitive polymerizable group; and

m and m<sub>1</sub> each is 0 or 1.

2. (Original) Anthraquinone compounds according to Claim 1 wherein the ethylenically-unsaturated, photosensitive copolymerizable groups represented by Q are selected from the following organic radicals:





wherein:

R<sub>11</sub> is selected from hydrogen and C<sub>1</sub>-C<sub>6</sub>-alkyl;

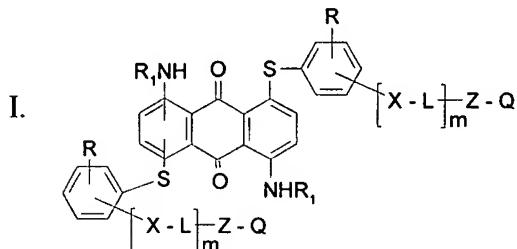
R<sub>12</sub> is selected from hydrogen; C<sub>1</sub>-C<sub>6</sub>-alkyl; phenyl and phenyl substituted with one or more groups selected from C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, -N(C<sub>1</sub>-C<sub>6</sub>-alkyl), nitro, cyano, C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl, C<sub>1</sub>-C<sub>6</sub>-alkanoyloxy and halogen; 1- and 2-naphthyl which may be substituted with C<sub>1</sub>-C<sub>6</sub>-alkyl or C<sub>1</sub>-C<sub>6</sub>-alkoxy; 2- and 3-thienyl which may be substituted with C<sub>1</sub>-C<sub>6</sub>-alkyl or halogen; 2- or 3-furyl which may be substituted with C<sub>1</sub>-C<sub>6</sub>-alkyl;

R<sub>13</sub> and R<sub>14</sub> are selected from hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted C<sub>1</sub>-C<sub>6</sub>-alkyl, aryl or may be combined to represent a  $-\text{[CH}_2\text{]}_{3-5}-$  radical;

R<sub>15</sub> is selected from hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>3</sub>-C<sub>8</sub>-alkenyl, C<sub>3</sub>-C<sub>8</sub>-cycloalkyl and aryl;

R<sub>16</sub> is selected from hydrogen, C<sub>1</sub> - C<sub>6</sub>-alkyl and aryl.

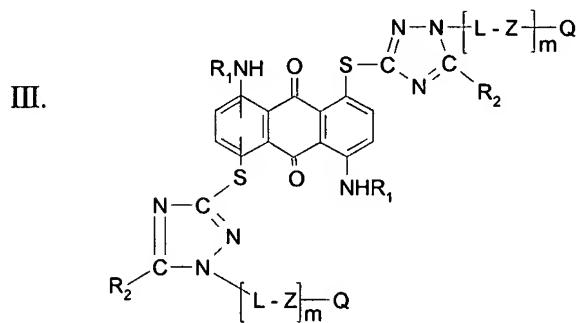
3. (Original) Anthraquinone compounds according to Claim 2 having the formula:



wherein Z is  $-\text{O}-$ .

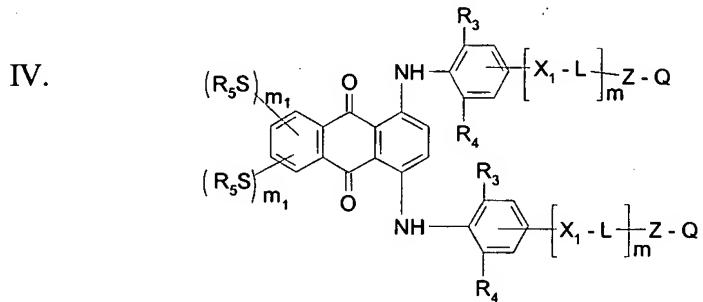
4. (Canceled)

5. (Original) Anthraquinone compounds according to Claim 2 having the formula:



wherein Z is -O-.

6. (Original) Anthraquinone compounds according to Claim 2 having the formula:

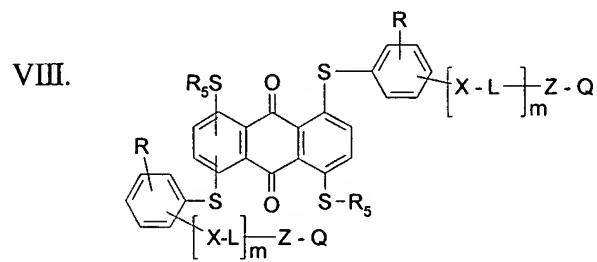


wherein Z is -O-.

7. (Canceled)

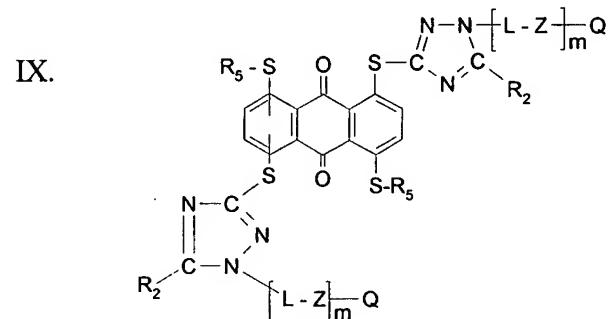
8. (Canceled)

9. (Original) Anthraquinone compounds according to Claim 2 having the formula:



wherein Z is -O-.

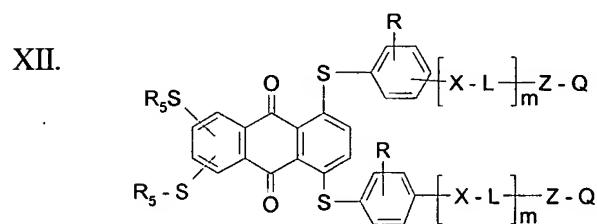
10. (Original) Anthraquinone compounds according to Claim 2 having the formula:



wherein Z is -O-.

11. (Canceled)

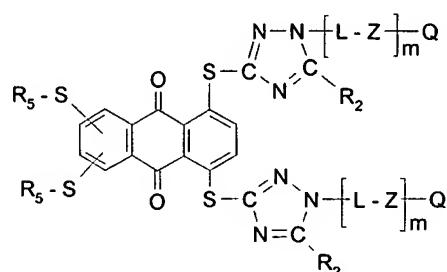
12. (Original) Anthraquinone compounds according to Claim 2 having the formula:



wherein Z is -O-.

13. (Original) Anthraquinone compounds according to Claim 2 having the formula:

XIII.

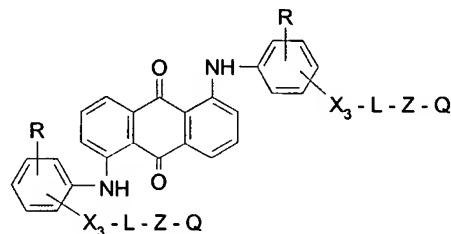


wherein Z is -O-.

14. (Canceled)

15. (Original) Anthraquinone compounds according to Claim 2 having the formula:

XVI.

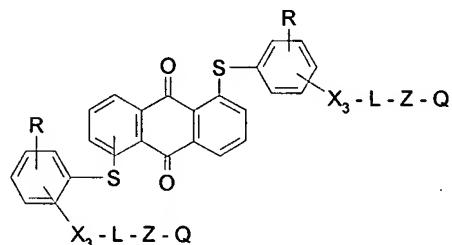


wherein Z is -O-.

16. (Canceled)

17. (Original) Anthraquinone compounds according to Claim 2 having the formula:

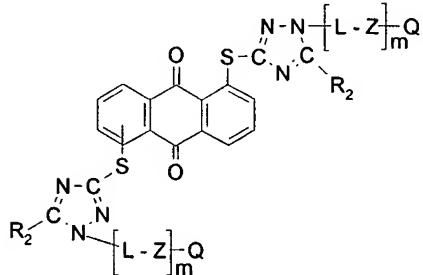
XIX.



wherein Z is -O-.

18. (Original) Anthraquinone compounds according to Claim 2 having the formula:

XX.



wherein Z is -O-.

19. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical Ia.

20. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical Ia wherein R<sub>11</sub> is hydrogen or methyl and R<sub>12</sub> is hydrogen.

21. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIa.

22. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIa wherein R<sub>11</sub> is hydrogen.

23. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIia.

24. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIia wherein R<sub>11</sub> is hydrogen or methyl and R<sub>13</sub> and R<sub>14</sub> are methyl.

25. (Original) Anthraquinone compounds according to Claim 3 wherein X is -CO<sub>2</sub>-, L is -CH<sub>2</sub>CH<sub>2</sub>-, and m is 1.

26. (Original) Anthraquinone compounds according to Claim 5 wherein L is –CH<sub>2</sub>CH<sub>2</sub>–, m is 1, and R<sub>2</sub> is hydrogen.

27. (Canceled)

28. (Original) Anthraquinone compounds according to Claim 9 wherein X is –CO<sub>2</sub>–, L is -CH<sub>2</sub>CH<sub>2</sub>–, and m is 1.

29. (Original) Anthraquinone compounds according to Claim 10 wherein L is -CH<sub>2</sub>CH<sub>2</sub>–, R<sub>2</sub> is hydrogen and m is 1.

30. (Original) Anthraquinone compounds according to Claim 12 wherein X is –CO<sub>2</sub>–, L is -CH<sub>2</sub>CH<sub>2</sub>–, and m is 1.

31. (Original) Anthraquinone compounds according to Claim 13 wherein L is -CH<sub>2</sub>CH<sub>2</sub>–, R<sub>2</sub> is hydrogen and m is 1.

32. (Original) Anthraquinone compounds according to Claim 15 wherein X<sub>3</sub> is –CO<sub>2</sub>–, L is -CH<sub>2</sub>CH<sub>2</sub>–, and R is hydrogen or bromine.

33. (Original) Anthraquinone compounds according to Claim 15 wherein X<sub>3</sub> is –CO<sub>2</sub>–, L is propylene, 1,4-cyclohexylenedimethylene or 2,2-dimethyltrimethylene, R is hydrogen, Z is –O–, and Q is an organic radical having the structure -COC(R<sub>11</sub>)=CH<sub>2</sub> wherein R<sub>11</sub> is hydrogen, methyl or ethyl.

34. (Original) Anthraquinone compounds according to Claim 15 wherein X<sub>3</sub> is –CO<sub>2</sub>–, L is propylene, 1,4-cyclohexylenedimethylene or 2,2-dimethyltrimethylene, R is hydrogen, Z is –O–, and Q is an organic radical having structure VIIa wherein R<sub>11</sub>, R<sub>13</sub> and R<sub>14</sub> each is methyl.

35. (Canceled)

36. (Original) Anthraquinone compounds according to Claim 17 wherein  $X_3$  is  $-CO_2-$ , L is  $-CH_2CH_2-$ , and R is hydrogen.

37. (Original) Anthraquinone compounds according to Claim 17 wherein  $X_3$  is  $-CO_2-$ , L is propylene, 1,4-cyclohexylenedimethylene or 2,2-dimethyltrimethylene, R is hydrogen, Z is  $-O-$ , and Q is an organic radical having the structure  $-COC(R_{11})=CH_2$  wherein  $R_{11}$  is hydrogen, methyl or ethyl.

38. (Original) Anthraquinone compounds according to Claim 17 wherein  $X_3$  is  $-CO_2-$ , L is propylene, 1,4-cyclohexylenedimethylene or 2,2-dimethyltrimethylene, R is hydrogen, Z is  $-O-$ , and Q is an organic radical having structure VIIa wherein  $R_{11}$ ,  $R_{13}$  and  $R_{14}$  each is methyl.

39. (Original) Anthraquinone compounds according to Claim 18 wherein L is  $-CH_2CH_2-$ , R<sub>2</sub> is hydrogen, and m is 1.

40. (Original) Anthraquinone compounds according to Claim 6 wherein X is  $-SO_2N(Y)-$ , L is C<sub>2</sub>-C<sub>6</sub> alkylene, R<sub>3</sub> and R<sub>4</sub> are methyl or ethyl, Y is hydrogen, m is 1 and m<sub>1</sub> is 0.

41. (Original) Anthraquinone compounds according to Claim 6 wherein X is  $-SO_2N(Y)-$ , L is C<sub>2</sub>-C<sub>6</sub> alkylene, R<sub>3</sub> and R<sub>4</sub> are methyl or ethyl, Y is hydrogen, m is 1 and m<sub>1</sub> is 1.

42. (Original) Anthraquinone compounds according to Claim 1 having formula VII wherein  $X_2$  is  $-CO_2-$  and R and R<sub>8</sub> are hydrogen.

43. (Original) Anthraquinone compounds according to Claim 1 having formula XI wherein  $X_2$  is  $-CO_2-$  and R<sub>1</sub> and R<sub>8</sub> are hydrogen.

44. (Canceled)

45. (Original) Anthraquinone compounds according to Claim 1 having formula XXI wherein X<sub>4</sub> is -CO<sub>2</sub>- and R and R<sub>8</sub> are hydrogen.

46. (Original) Anthraquinone compounds according to Claim 1 having formula IV wherein X<sub>1</sub> is -O-, Z is -O-, L is -CH<sub>2</sub>CH<sub>2</sub>-, R<sub>3</sub> and R<sub>4</sub> are methyl or ethyl, m is 1 and m<sub>1</sub> is 0.

47. (Original) A coating composition comprising (i) one or more polymerizable vinyl compounds, (ii) one or more of the dye compounds of Claim 1, and (iii) a photoinitiator.

48. (Currently amended) A coating composition according to Claim 47 comprising (i) one or more polymerizable vinyl compounds, (ii) one or more of the dye compounds of Claim 2 present in a concentration of about 0.05 to 15 weight percent based on the weight of component (i), and (iii) a photoinitiator present in a concentration of about 1 to 15 weight percent based on the weight of the polymerizable vinyl compound(s) present in the coating composition.

49. (Original) A coating composition according to Claim 48 wherein the polymerizable vinyl compounds comprise a solution of a polymeric, polymerizable vinyl compound selected from acrylated and methacrylated polyesters, acrylated and methacrylated polyethers, acrylated and methacrylated epoxy polymers, acrylated or methacrylated urethanes, and mixtures thereof, in a diluent selected from monomeric acrylate and methacrylate esters.

50. (Currently amended) A polymeric coating composition comprising a polymer of one or more acrylic acid esters, one or more methacrylic acid esters and/or other or other copolymerizable vinyl compounds, having copolymerized therein one or more of the dye compounds defined in Claim 1.

51. (Currently amended) A polymeric coating composition according to ~~Claim 50~~ comprising a coating of an acrylic polymer of one or more acrylic acid esters, one or more methacrylic acid esters or a mixture thereof having copolymerized therein one or more of the dye compounds defined in Claim 2.

52. (Currently amended) A polymeric coating composition according to ~~Claim 50~~ comprising a coating of an unsaturated polyester containing one or more maleate/fumarate residues; one or more monomers which contain one or more vinyl ether groups, one or more vinyl ester groups, or a combination thereof, and, optionally, one or more acrylic or methacrylic acid esters; or a mixture thereof having copolymerized therein one or more of the dye compounds defined in Claim 2.

53. (Currently amended) A polymeric coating according to Claim 51 containing from about 0.05 to 15.0 weight percent of the residue of one or more of the dye compounds of ~~Claim 2~~ based on the weight of the coating.